

## COMPOSITION

Epoxy two-component solvent-free product, neutral or pigmentable with good chemical - mechanical resistance and excellent bacteriostatic characteristics.

## FIELD OF USE

Thick glossy film coating on vertical and horizontal cement surfaces, steel structures, liquid and solid containment tanks, even chemically aggressive ones; low resistance to yellowing due to direct exposure to UV rays; suitable in case of use of corrosive substances of acid and/or basic nature, as well as oils, gasoline and hydrocarbons.

## CERTIFICATIONS

Prolonged contact with particularly aggressive chemical reagents may induce a superficial change in the colour, without affecting the integrity of the coating in its thickness. Working range from -10°C. to + 40° C.

## QUALITY

- Compliance with LEED regulations for low emitting materials, EQ Credit 4.1—4.2—4.3 reduction of the emission of pollutants (VOC) inside buildings.

The product is subjected to careful and constant testing in our laboratories. The raw materials used are rigorously selected and controlled.

## TECHNICAL SPECIFICATIONS

### RESULTS

### ANALISYS METHOD

#### Mixing Ratio (\*)

NEUTRAL version: 100 parts in weight of BASE with 26 parts in weight of REAGENT P.  
 COLORED version (standard colors): 100 parts in weight of BASE with 24 parts in weight of REAGENT P.  
 COLORED version (p20): 100 parts in weight of BASE with 20 parts in weight of REAGENT P.

All Pava Resins products must be mixed thoroughly before proceeding with the various application phases. Manual mixing is not permitted; incorrect mixing causes the coating to not completely cure.

Combine the different components, taking care to mix thoroughly by mixing at low speed in order to obtain a homogeneous color mixture. It is recommended to take particular care in mixing all the compound inside each individual components; with the help of a spatula/knife collect the product from the sides/bottom of the pot in order to maintain the catalysis ratios.

Mix component A (Base) with a propeller/blade mixer and then add component B (reagent) and mix for a minimum of 3 minutes until the mixture is homogeneous in density and chromaticity.

For the colored version it is recommended to use the complete packaging. In the event that it is necessary to divide the packages, take care to mix properly all the colored component to disperse the pigments evenly. With the help of a precision balance, then divide the components paying careful attention in order to maintain the catalysis ratios of the individual elements, so as not to incur poor performance.

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#### Specific Weight (\*\*)

1,40 - 1,58 gr/cm<sup>3</sup> at 20 ± 2 °C, according to the color.

ASTM D 1475  
EN ISO 2811-1

#### High Solid Content (\*\*)

98 ± 2% Test Pava.

ASTM D 2369  
EN ISO 3251

#### Viscosity a 25±2°C (\*\*)

3000 - 7000 mPa s.

ASTM D 2196  
EN ISO 3219

#### Adhesion to Concrete (\*)

> 2,0

ASTM D 4541  
EN 1542

#### Adhesion to Iron (\*)

> 6,0

ASTM D 4541  
EN 1542

#### Abrasion (1 kg 1000 cycles CS10) (\*)

< 65 mg

ASTM D 4060

#### Fire Reaction (\*)

Bfl-s1

EN 13501-1



TECHNICAL SPECIFICATIONS	RESULTS	ANALISYS METHOD
Compressive strength (*)	70 ± 5 (MPa)	UNI 13892/2
Tensile - Flexural Strenght (*)	40 ± 5 (MPa)	UNI 13892/2
Flexural Modulus (*)	2500 - 4000 (MPa)	/
Break Elongation (*)	< 1,5 %	/
Dilution (*)	With ethyl alcohol or epoxy diluent from 5 to 15%, depending on the application.	13 IST 21
Mixture Duration (*)	Pot-life of 70 - 90 minutes at 20 ± 2°C.	13 IST 22 EN 9514
Drying Time (*)	Touch dry after 12 hours at 20 ± 2°C and 50 ± 10% environmental humidity. Full curing of two layers from 4 to 8 days, depending on environmental conditions. Tendency to hazing and fogging with temperatures lower than 10°C and high humidity (> 70%).	ASTM D 1640 EN ISO 866
Recoating (**)	After 12 - 24 hours depending on the temperature, not over 48 hours. Compatibility and over-coating, refer to our Technical Office.	ASTM D 1640
Consumption and Yield (*)	(theoretical) approx. 0,250 - 0,300 kg/m <sup>2</sup> for each layers at a recommended thickness of 200 µm.	13 IST 03
Appearance of the Film (*)	Glossy, bright; slight tendency to yellowing and chalking due to U.V. exposure and with wear and aging.	/
Number of Layers	One or more layers depending on the required film thickness.	/
Tools Washing	With epoxy/nitro thinner.	/
Storage Life	12 months in the original well-closed packing, in a dry, ventilated place at room temperature not lower than +5°C.  Do not expose the packages directly to the sun. Keep away from frost.	/

(\*) Tests performed according to the methods indicated in the internal control plan. The product is not self-supporting UNI10966, but conditioned by the support.  
No film tests RIF. ISO UNI EN 13892 - 2 (highthickness).  
(\*\*) Typical Values

Preparation of Surfaces

Sandblasting, mechanical or manual abrasion; on ferrous supports sandblast Sa2 ½ and apply suitable adhesion promoter.

On inside tanks, check the seal. If underground, consult our Technical Office.

Any imperfections or irregularities that could compromise the final aesthetic effect must be corrected by sanding and/or regularizing of the substrate before applying the subsequent products.

In the presence of cracking processes in the support, carefully check the nature of these phenomena: if due to plastic shrinkage, and if due to stress-structural phenomena affecting the support itself. Both in the case of static and dynamic cracks consult our Technical Office in order to intervene appropriately. No responsibility can fall on the product in the event that these cracking processes affect the same as, according to UNI EN 10966, these systems are not self-supporting.

Any traces of oil, grease, paint, varnish, efflorescence, etc. must be removed beforehand, as well as any chalking or removable sections.

Before proceeding with the application of Pava Resine products, the preliminary treatment of all the critical points is mandatory (possible cracks in the support, corners, edges, vertical folds, expansion and/or structural joints, drains, grids, gutter connections, drainpipes, steps and thresholds, plant pipes, etc).

Application

Brush, roller and airless with recommended temperatures not lower than + 10°C. Applications at temperatures close to zero can also be effective compatibly with the environmental conditions and the required curing time, but only after the addition of suitable accelerant. Since the film produced is almost waterproof, bubbles or detachments can be generated in the presence of humidity.



## Packs &amp; Colors

Available in the following packing:

NEUTRAL Version:

Base kg. 0,750 + Reag. kg. 0,190 = total kg. 0,940 B+R

Base kg. 9,790 + Reag. kg. 2,500 = total kg. 12,290 B+R

COLORED Version (standard colors):

Base kg. 10,300 + Reag. kg. 2,500 = total kg. 12,800 B+R

COLORED Version (p20):

Base kg. 0,940 + Reag. kg. 0,190 = total kg. 1,130 B+R

Base kg. 12,250 + Reag. kg. 2,500 = total kg. 14,750 B+R

Pigmentable with water-based coloring pastes inserted in the base.  $\Delta E$  Cielab <5.0 non-binding.

## Warnings

If at the opening of the container the products show signs of instability/deterioration including thickening, crystallization, gelatinization, sedimentation, flotation, etc. due to incorrect storage of the material (temperature/humidity) both during transport and in the final warehouse or for use beyond the expiration date, the use is not recommended.

Product for professional use.

It is strongly recommended to use the applicators course before using Pava Resine products. Anyone who uses these products without being enabled, does so at their own risk.

Keep out of reach of children. Ventilate the premises well during use and drying. Do not eat, drink or smoke during use. During use, wear protective gloves and goggles and use the usual precautions for handling chemical products. In case of contact with eyes or skin, wash immediately with plenty of water and consult a doctor. If swallowed contact a poison control center or a doctor immediately. Ventilate the premises before staying there.

## Rules to be observed

The above mentioned products and technologies results low-environmental impact and permit to reduce the internal and external pollution caused by solvents. Compliance to the hygienic standards in force as the use of epoxy resins is strongly recommended. For more informations, see our Safety Sheet.

## Handling Precautions

NOT RECOMMENDED FOR:

DO NOT apply on concrete which is less than 10 days old.

DO NOT apply on concrete with a curing or sealing membrane.

DO NOT apply on base concrete at a temperature lower than 10°C (50°F).

DO NOT dilute with ethyl alcohol.

**SLIP/FALL PRECAUTIONS:** We recommend using slip resistant granules in all outdoor applications where the product will be used and on indoor applications that may be exposed to water, oil or other spills that may cause a slippery environment. Polymer or glass microfibers may be added into the product to achieve the amount of slip resistance desired. It is the end user's responsibility to determine the suitability of a coating for their particular application. Pava Resine will not be responsible for injury incurred in a slip/fall accident.

**SAFETY PRECAUTIONS:** Health Considerations: Consult our Safety Data Sheet.

Chemical systems require the use of proper safety equipment and procedures. Please follow our Safety Data Sheet for detailed information and handling guidelines.

**For Your Protection:** the information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning the products and their uses, applications, storage and handling are only the opinion of Pava Resine. Users should conduct their own tests to determine the suitability of these products for their own particular purposes and of the storage and methods herein suggested. The toxicity and risk characteristics of products made by Pava Resine will necessarily differ from the toxicity and risk characteristics developed when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors.

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